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1 Distributed co-operating processes and transactions

Lui Sha, E. Douglas Jensen, Richard F. Rashid, J. Duane Northcutt
April 1983 **ACM SIGCOMM Computer Communication Review , Proceedings of the symposium on Communications Architectures & Protocols COMM '83**, Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(973.13 KB) Additional Information: full citation, abstract, references, citings

As part of our research in the Archons [Jensen 82] project on decentralized computers, we have developed a relational model of data consistency to replace the conventional serialization model for reasoning about the relationships among distributed system data objects in general and state variables in particular. We not only permit but encourage such relationships to be probabilistic, in the interest of efficiency. This model leads to a new formulation of co-operating processes, and thence to ...

2 A sin of omission: database transactions

David M. Hansen
October 2005 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 1
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(176.89 KB) Additional Information: full citation, abstract, references, index terms

Database courses are under increasing pressure to include new topics which inevitably leads to a decision about which topics are essential to the course and which can be omitted to make room for others. Recent surveys have indicated that many instructors are reducing or eliminating coverage of "transaction management" from their introductory database courses. As both an academic and a practitioner, I believe that this is a mistake. This paper discusses why the semantics of transaction management ...

3 Multidatabase systems: Issues in managing long transactions and large objects in a multidatabase system

Gopi Attaluri
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**
Publisher: IBM Press
Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, citings

Transactions are a useful and important facility in database systems. Transactions have been incorporated into not only traditional database systems, but also advanced transaction systems (such as file systems (LOCUS), engineering design database systems

(CAD/CAM) and general programming languages (Avalon, Argus)). A variety of techniques has been used to support transactions.An environment may be comprised of multiple transaction systems. Writing a global application in such an environment can ...

4 Failure isolation and recovery in composite multidatabases

Dexter P. Bradshaw

October 1994 **Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(193.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Most concurrency control schemes for guaranteeing global serializability in composite multidatabase systems are susceptible to rollbacks. Conservative schemes generate rollbacks because of transaction timeouts, while those of optimistic schemes are caused by certification failures. Typically, rollbacks on any branch of a flat distributed transaction cause a global abort. Global aborts during multidatabase composition degrade performance because of a waste of resources and reductions in multidata ...

5 Transaction scheduling in dynamic composite multidatabase systems

Dexter P. Bradshaw, Per-Åke Larson, Jacob Slonim

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(317.09 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes composite multidatabase architecture consisting of multiple, possibly heterogeneous, peer multidatabase servers distributed on a communications network. The domain of each multidatabase server is treated as a multidatabase cell. Global transactions could span multiple multidatabase cells, sometimes forcing multidatabase servers to act as component database systems. Although each multidatabase server guarantees serializable execution histories for transactions under its contro ...

6 Analysis of locking behavior in three real database systems

Vigyan Singhal, Alan Jay Smith

February 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(328.18 KB) Additional Information: full citation, abstract, citings, index terms

Concurrency control is essential to the correct functioning of a database due to the need for correct, reproducible results. For this reason, and because concurrency control is a well-formulated problem, there has developed an enormous body of literature studying the performance of concurrency control algorithms. Most of this literature uses either analytic modeling or random number-driven simulation, and explicitly or implicitly makes certain assumptions about the behavior of transactions and t ...

Keywords: Concurrency control, Trace-driven simulation, Workload characterization

7 Cooperative transaction hierarchies: transaction support for design applications

Marian H. Nodine, Stanley B. Zdonik

July 1992 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 1 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.20 MB) Additional Information: full citation, abstract, references, citings

Traditional atomic and nested transactions are not always well-suited to cooperative

applications, such as design applications. Cooperative applications place requirements on the database that may conflict with the serializability requirement. They require transactions to be long, possibly nested, and able to interact with each other in a structured way. We define a transaction framework, called a *cooperative transaction hierarchy*, that allows us to relax the requirement for atomic, seria ...

Keywords: cooperation, deadlock detection, design transactions, non-serializability, transaction hierarchies, transaction synchronization, version management

8 Session: Relaxing the limitations of serializable transactions in distributed systems

Calton Pu

September 1992 **Proceedings of the 5th workshop on ACM SIGOPS European workshop: Models and paradigms for distributed systems structuring**

Publisher: ACM Press

Full text available: pdf(511.13 KB) Additional Information: full citation, references, citings

9 Lazy consistency using loosely synchronized clocks

Atul Adya, Barbara Liskov

August 1997 **Proceedings of the sixteenth annual ACM symposium on Principles of distributed computing**

Publisher: ACM Press

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